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5/15/2002  
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Eva Tan  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Applicant: Jürgen Veil

Serial No.: 10/054,292

Filed: November 13, 2001

For: METHOD AND APPARATUS FOR PRINTING OF A  
SUBSTRATE FOR PREPARING OF PACKAGING BLANKS

Attorney Docket No.: 103797-221-NP

**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Prior to substantive examination of the above-identified application, please amend the specification and claims as follows:

**IN THE TITLE**

Please amend the title of invention to read:

“METHOD AND APPARATUS FOR PRINTING ON SUBSTRATES FOR  
PREPARING PACKAGING BLANKS”

**IN THE SPECIFICATION:**

Please replace the specification with the substitute specification attached hereto. A marked up version of the substitute specification showing all changes relative to the original translation of the specification, filed concurrently herewith, is also attached. The

deleted matter is shown by brackets and the added matter is shown by underlining. The same marking system is also used below to show the changes made to the claims.

IN THE CLAIMS:

Please rewrite claims 1-18 as follows:

1. (Amended) A method for printing on a substrate having a surface for preparing packaging blanks, comprising the steps of:

dividing said substrate into copies, said copies having areas intended for application of an adhesive;

producing a printed image on each of said copies by application of an ink film of a first ink system;

coating said areas intended for application of an adhesive with a second ink system; and

applying a lacquer over said surface of said substrate, said lacquer being absorbed by said coating of said areas intended for application of an adhesive.

2. (Amended) The method of claim 1, wherein said ink systems differ from one another with respect to lacquer absorption capacities.

3. (Amended) The method of claim 1, wherein said ink systems, after being applied, are treated differently by curing and/or drying.

4. (Amended) The method of claim 1, wherein said ink system for coating said areas intended for application of an adhesive contains only a small amount of pigments or substantially no pigments at all.

5. (Amended) The method of claim 1, wherein said lacquer is colorless.

6. (Amended) The method of claim 1, wherein one of said ink systems comprises a hybrid ink, which contains an ink which can be cured by radiation, and another ink system comprises an ink which is typically used for offset printing.

7. (Amended) The method of claim 1, wherein said lacquer is cured by radiation.

8. (Amended) The method of claim 6, wherein said hybrid ink and said lacquer are cured by UV light.

9. (Amended) A method for printing on a substrate having a surface for preparing packaging blanks, comprising the steps of:

dividing said substrate into copies, said copies having areas intended for application of an adhesive;

producing a printed image on each of said copies by application of an ink film;

applying a binder customarily used for offset printing inks at said areas intended for application of an adhesive; and

applying a lacquer over said surface of said substrate, said lacquer being absorbed by said binder.

10. (Amended) The method of claim 9, wherein said binder customarily used for offset printing inks is a varnish.

11. (Amended) The method of claim 9, wherein said ink systems are treated differently by curing and/or drying.

12. (Amended) The method of claim 9, wherein said ink systems and said binder differ from one another with respect to lacquer absorptive capacities.

13. (Amended) An apparatus for printing on a substrate for preparing packaging blanks, comprising:

at least one printing unit for applying an ink film comprising at least one ink system;

a printing unit for printing a binder, which is customarily used for offset printing inks; and

a lacquering device, which is disposed after said printing units, for applying a layer of lacquer on said substrate.

14. (Amended) The apparatus of claim 13, wherein said printing unit for printing a binder is disposed after said at least one printing unit for applying an ink film.

15. (Amended) The apparatus of claim 13, wherein said lacquering device is a lacquer tower, which comprises a lacquer plate cylinder, an engraved ink transfer cylinder, and a chamber doctor blade.

16. (Amended) A method for printing on a substrate having a surface for preparing packaging blanks, comprising the steps of:

dividing said substrate into copies, said copies having areas intended for application of an adhesive;

producing a printed image on each of said copies by application of an ink film, said ink film having at least two different ink systems;

applying a binder customarily used for offset printing inks at said areas intended for application of an adhesive; and

applying a lacquer over said surface of said substrate, said lacquer being absorbed by said binder and interacting with said inks systems, whereby degrees of gloss vary among areas of different ink systems.

17. (Amended) The method of claim 16, wherein said degrees of gloss are inversely proportional to lacquer absorptive capacities of said ink systems so that more lacquer remains at a surface of an ink film with one or more ink systems of lower lacquer absorptive capacities and more lacquer is absorbed by an ink film of one or more ink systems of higher lacquer absorptive capacities.

18. (Amended) A method of claim 17, wherein one or more gloss-determining components of said lacquer can be absorbed by said ink film.

## MARKED UP VERSION OF REWRITTEN CLAIMS

1. (Amended) A method for printing on a substrate having a surface for preparing packaging blanks, comprising the steps of:

dividing said [the] substrate [being divided] into copies, said [these] copies having areas intended for [the later] application of an adhesive[.];

producing a printed image [being produced] on each of said copies [the copy] by [the] application of an ink film of a first ink system; [and this printed image being coated with a lacquer, wherein, for producing the printed image, at least two different ink systems are used, one of the ink systems also being provided for] coating said [the] areas intended for [the] application of [the] an adhesive[.] with a second ink system; and

applying a [the] lacquer [being applied] over [the whole] said surface of said substrate, said [and a] lacquer being [used, which is] absorbed by [the] said coating of [the] said areas[, which are] intended for [the] application of [the] an adhesive.

2. (Amended) The method of claim 1, wherein [the inks] said ink systems differ from one another with respect to [their] lacquer absorption [capability] capacities.

3. (Amended) The method [for printing a substrate for preparing packaging blanks] of claim 1, wherein [the] said ink systems, after being applied, are treated differently by curing and/or drying.

4. (Amended) The method [for printing a substrate for preparing packaging blanks] of claim 1, wherein [the] said ink system for coating [the] said areas[, which are] intended for [the] application of [the] an adhesive[.] contains only a small [number] amount of pigments[, if any] or substantially no pigments at all.

[5] 9. (Amended) A method for printing on a substrate having a surface for preparing packaging blanks, comprising the steps of:

dividing said [the] substrate [being divided] into copies, said [these] copies having areas intended for [the later] application of an adhesive[.];

producing a printed image [being produced] on [the copy] each of said copies by [the] application of an ink film; [and this printed image being coated with a lacquer, wherein, for producing a printed image, an ink film and]

applying a binder[, customary] customarily used for offset printing inks[, are printed, the binder being applied] at [the] said areas intended for [the] application of [the] an adhesive[.]; and

applying a [the] lacquer [being applied] over [the whole] said surface of said substrate, said [and a] lacquer being [used, which is] absorbed by [the] said binder.

[6] 16. (Amended) A method for printing on a substrate having a surface for preparing packaging blanks, comprising the steps of:

dividing said [the] substrate [being divided] into copies, said [these] copies having areas intended for [the later] application of an adhesive[.];

producing a printed image [being produced] on [the copy] each of said copies by [the] application of an ink film, [and this printed image being coated with a lacquer, wherein, for producing the printed image, an] said ink film [with] having at least two different ink systems; [and]

applying a binder[, customary] customarily used for offset printing inks[, are printed, the binder being applied] at [the] said areas intended for [the] application of [the] an adhesive[.]; and

applying a [the] lacquer [being applied] over [the whole] said surface of said substrate, said [and a] lacquer being [used, which is] absorbed by [the] said binder and[, in interaction] interacting with [the] said inks systems, whereby [specifically changes its degree] degrees of gloss vary among areas of different ink systems.

[7] 10. (Amended) The method [for printing a substrate for preparing packaging blanks] of claim [5] 9, wherein [the] said binder[, customary] customarily used for offset printing inks[, ] is a varnish.

[8] 11. (Amended) The method [for printing a substrate for preparing packaging blanks] of claim [5] 9, wherein [the] said ink systems are treated differently by curing and/or drying.

[9] 12. (Amended) The method [for printing a substrate for preparing packaging blanks] of claim [5] 9, wherein [the] said ink systems and [the] said binder differ from one another with respect to [their ability to absorb] lacquer absorptive capacities.

[10] 17. (Amended) The method [for printing a substrate for preparing packaging blanks] of [the preceding claims] claim 16, wherein [the] said degrees of gloss [is] are inversely proportional to [the] lacquer absorptive [capacity] capacities of [the] said ink systems [for lacquer,] so that more lacquer [remaining] remains at [the] a surface [in the case] of an ink film[s] with one or more ink systems of [lesser] lower lacquer absorptive [capacity] capacities and [a higher proportion of the ink film] more lacquer is [being] absorbed [in the case of] by an ink film[s] of one or more ink systems of [greater] higher lacquer absorptive [capacity] capacities.

[11] 18. (Amended) A method [for printing a substrate for preparing packaging blanks] of claim [10] 17, wherein [the] one or more gloss-determining components of [the] said lacquer [are] can be absorbed by [the] said ink film.

[12] 5. (Amended) The method [for printing a substrate for preparing packaging blanks] of claim 1, wherein [the] said lacquer [used] is colorless.

[13] 6. (Amended) The method [for printing a substrate for preparing packaging blanks] of claim 1, wherein one of [the] said ink systems [consists of] comprises a hybrid ink[s], which contains [portions of] an ink[,], which [is] can be cured by radiation, and [the other] another ink system[s] [consist of] comprises an ink[s,], which [are] is typically [employed] used for offset printing.

[14] 7. (Amended) The method [for printing a substrate for preparing packaging blanks] of claim 1, wherein [the] said lacquer is cured by [the action of] radiation.

[15] 8. (Amended) The method [for printing a substrate for preparing packaging blanks] of claim [1] 6, wherein [the] said hybrid ink [inks as well as the] and said lacquer are cured by UV light.

[16] 13. (Amended) An apparatus [for carrying out the method, which is described in the preceding process claims,] for printing on a substrate for preparing packaging blanks, comprising:

at least one printing unit [(31, 32, 33, 34)] for applying an ink film [consisting of] comprising at least one ink system[,];

a printing unit [13, which is incorporated in the series of printing units (31 to 34),] for printing a binder, which is customarily used for offset [of] printing inks; and

a lacquering device [(4)], which is disposed after [the] said printing units [(13, 31 to 34)], for applying a [closed ink film] layer of lacquer on [the] said substrate.

[17] 14. (Amended) [An] The apparatus of claim [16] 13, wherein [the] said printing unit [(13)] for printing a binder is disposed after [the] said at least one printing unit [(31, 32, 33, 34)] for applying an ink film.

[18] 15. (Amended) The [printing unit] apparatus of claim [16] 13, wherein said lacquering device is a lacquer tower [(4)], which comprises [equipped with] a lacquer plate cylinder [(8)], an engraved ink transfer cylinder [(9),] and a chamber doctor blade [(10), is disposed as lacquering apparatus].



### REMARKS

The amendment to the specification and the claims corrects faulty English and typographical errors therein and introduces no new matter thereto. It is respectfully submitted that the subject application is now in condition for examination.

Respectfully submitted,

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Attorney Docket No.: 103797-221-NP

**REPLY TO NOTICE TO FILE MISSING PARTS OF APPLICATION**

Box Missing Parts  
Assistant Commissioner for Patents  
Washington, DC 20231

Dear Sir:

In response to the Notice of File Missing Parts of Nonprovisional Application dated March 15, 2002, the Applicant submits the following items:

1. Executed Declaration and Power of Attorney;
2. Surcharge fee of \$130.00 for filing the declaration on a date later than the filing date of the application;
3. English translation of the specification including drawings;